

REC 80



# FINDEX

The real  
microcomputer

\* \$6K ; \$5K w/b  
printer.

NB 'CP/M minor'  
for detailed software  
interface specs.





## FINDEX—The portable computer with bubble memory

### Not a Toy

FINDEX is a fully portable, inexpensive, feature-packed business computer designed for the professional. FINDEX uses the latest technology: bubble memory, an expanded keyboard, a lightweight, flat, gas plasma display, a built-in 80-132-column, plain paper printer.

This terminal-sized microcomputer can have up to 2 million characters of non-volatile solid state bubble memory mass storage, or up to 400,000 characters on a built-in mini-floppy diskette drive; random access memory from 48 kilobytes to 2 megabytes. It interfaces to a variety of outside peripherals, such as large printers, or multiple hard disk drives (up to 195 megabytes).

It has I/O expandability: serial, parallel and S-100 Bus interface is standard. Audio-cassette recorder jacks and acoustic coupler are optional.

### No sorting

FINDEX is programmed in easy-to-use Business BASIC. It also supports a



FORTRAN, a COBOL, or a BASIC compiler, as well as a MACRO assembler; APL and PASCAL can be used too. The BASIC includes a comprehensive file management capability. There is no loss of time for new data to be sorted: as data is typed in, it is immediately entered in its proper place in the desired order: alphabetical, zip code, price, quantity, etc. There is no loss of time for retrieving data either: the computer will access the requested data directly without going through any lengthy search.

### Versatility

The FINDEX has numerous uses in a wide variety of businesses. Typical examples are: scientific work; inventory; accounting; mailing list management; real estate; insurance sales and underwriting; retail establishments; automobile dealerships; doctors' offices; churches; newspaper reporting; and multi-product sales such as hospital supplies, office products, paper, hardware products, and building materials supplies.

FINDEX will place your entire business on computer. It is a portable problem solver, a memory robot that gives you accurate answers fast.

### Fully portable

It weighs 31 pounds (14 kg) and can be taken along in its carrying case on airplanes or in cars. Wherever you go, FINDEX goes with you. Its battery back-up (optional) and built-in printer grant you independence from heavy peripherals.

FINDEX comes with a one-year warranty on parts and labor (90 days on bubble memory) and is maintained by an international service organization.

## A wide range of applications

### Engineers—Researchers

FINDEX can be used for:

- complex mathematical and statistical computations,
- process control,
- laboratory equipment.

### Accountants—Service bureaus

FINDEX meets all your customers' needs:

- general ledger,
- balance sheets,
- accounts payable,
- accounts receivable,
- payroll,
- inventory.

### Small and medium-sized businesses

FINDEX will help:

- your Purchasing Department to keep a running inventory,
- your Accounting Department for all accounts payable, accounts receivable, general ledger and payroll,
- your Marketing Department with an updated mailing list of present or potential customers.

### Wholesalers—Manufacturers

FINDEX can support you with:

- constant inventory control,
- verification and accurate order pricing on the spot, whether by item or by retail outlet,
- customized quotations.

### Auto dealers

FINDEX goes to work for you:

- filling out all installment credit insurance forms,
- providing complete inventory of parts, and complete accounting,
- giving you an up-to-date mailing list of your customers.



## Sales representatives

FINDEX will support you on the move with:

- a constantly updated price list,
- a computerized product catalogue,
- built-in pricing combination order information,
- multiple discount schedules,
- order entry,
- customer lists by preferences.

## Realtors

FINDEX will hold for you:

- on-line portable listing information for over a thousand homes,
- cross-referenced listings, without sorting, under any heading you choose: location, number of rooms, price, specific features, etc.

## Reporters

FINDEX is exactly what you need:

- the optional built-in battery allows you one hour work capability with complete independence on the field,
- you have a full size print-out of your copy immediately,
- the optional acoustic coupler enables you to transmit your copy over the phone.

## Insurance agents

FINDEX will provide you with:

- all necessary rating tables,
- accurate premium information,
- alternative plans for comparison,
- schedules of cash value growth, paid-up point, etc.
- completion of insurance forms.

## Physicians-Dentists

FINDEX is ideal for:

- automatic insurance form preparation,
- automatic patient's billing statements,
- complete medical accounting procedures and records (such as daily activities, patient's recall notices, patient's accounts receivable, delinquent accounts)
- optional programs include general ledger, accounts payable, payroll, inventory management.

02982Giul 10022  
Giulizno David  
Giuliano Const  
P.O.Box 478  
Wakefield RI 02982

02903Morr 10000  
Morrow William P Jr  
Sturges Daughn Salisbury  
101 Dyer St  
Providence RI 02903

06071Walk 10016  
Walker Michael  
Steelway  
Tumble Brook Circle  
Somers CT 06071

06457Mylc 10016  
Mylchreest David B  
D B Mylchreest Cnslt Eng  
30 Laurel Grove Rd  
Middletown CT 06457

07094Chan 10017  
Chans James C K  
Nuclear Power Serv  
One Harmon Plaza  
Secaucus NJ 07094

07110Sanc 10023  
Sanchez Alex

07470Beck 10001  
Beck Paul C

08105La R 10017  
La Russo Michael

10016Kime 10024  
Kime Alexander  
Kime Assoc  
309 Fifth Ave  
New York NY 10016

102/SJJ JAMES J. STEVENS  
4643 HARRISON AVE.  
ATLANTA, GA 30332  
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| 4 | CDA | 4L | 07/01/79 | M | 2 | 2 |
| 5 | CDA | 5L | 07/01/79 | F | 2 | 2 |
| 6 | CDA | 6L | 11/01/79 | F | 2 | 2 |
| 7 | CDA | 7L | 11/01/79 | M | 2 | 2 |
| 8 | CDA | 8L | 20/01/79 | M | 3 | 3 |

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Tannebaum E J  
Catalytic Inc  
1500 Market St  
Philadelphia PA 19



# FINDEX features

## Display

Flat gas plasma display panel consisting of 6 rows of 40 or 80 characters each, numeric and upper and lower case alpha; 5 x 7 dot matrix. Micro-programmed cursor and scroll protocols. Character set under software control. Can be interfaced to full-screen CRTs, although most applications do not need a full screen as computer operators answer only one question at a time.

## Audio (optional)

I/O in the form of two-tone audio, 100 bytes per second (1100 baud), is built in and available for data transfer to any standard cassette recorder.

## Printer

40, 80, 96, 132-columns per line, 25 lines/min. (Numeric, upper and lower case alpha characters, and expanded print) Tractor &/or friction feed. Uses multi-copy plain paper, and 5 x 7 dot matrix impact principle. Character set, forms under software control. Form width: 9 inches.

## Mass storage:

### Built-in mini-floppy diskette drive

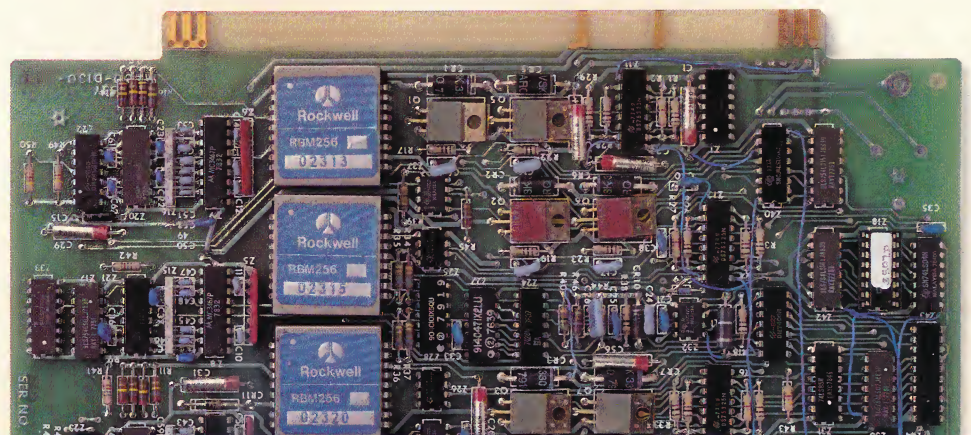
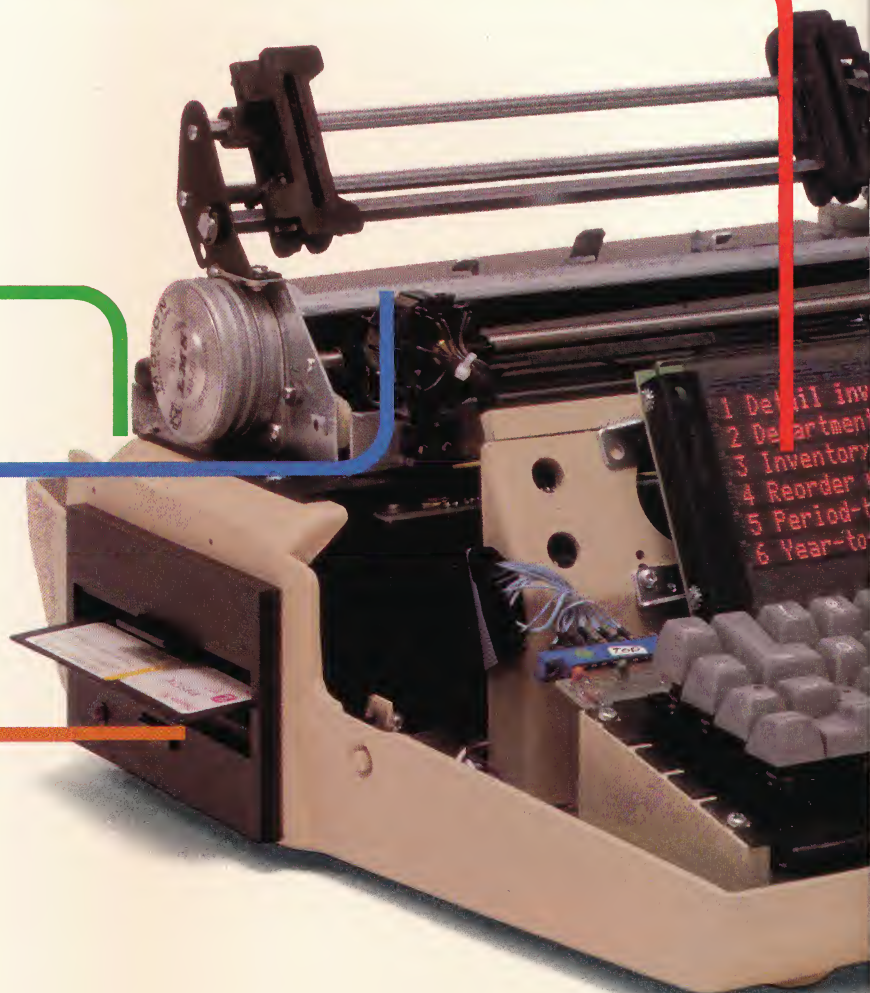
System 100TD includes one built-in mini-floppy diskette drive holding 200k bytes, expandable to 400k bytes. Access time: 40-75 milliseconds. Option available for built-in dual mini-floppy disk drive.

### Bubble memory

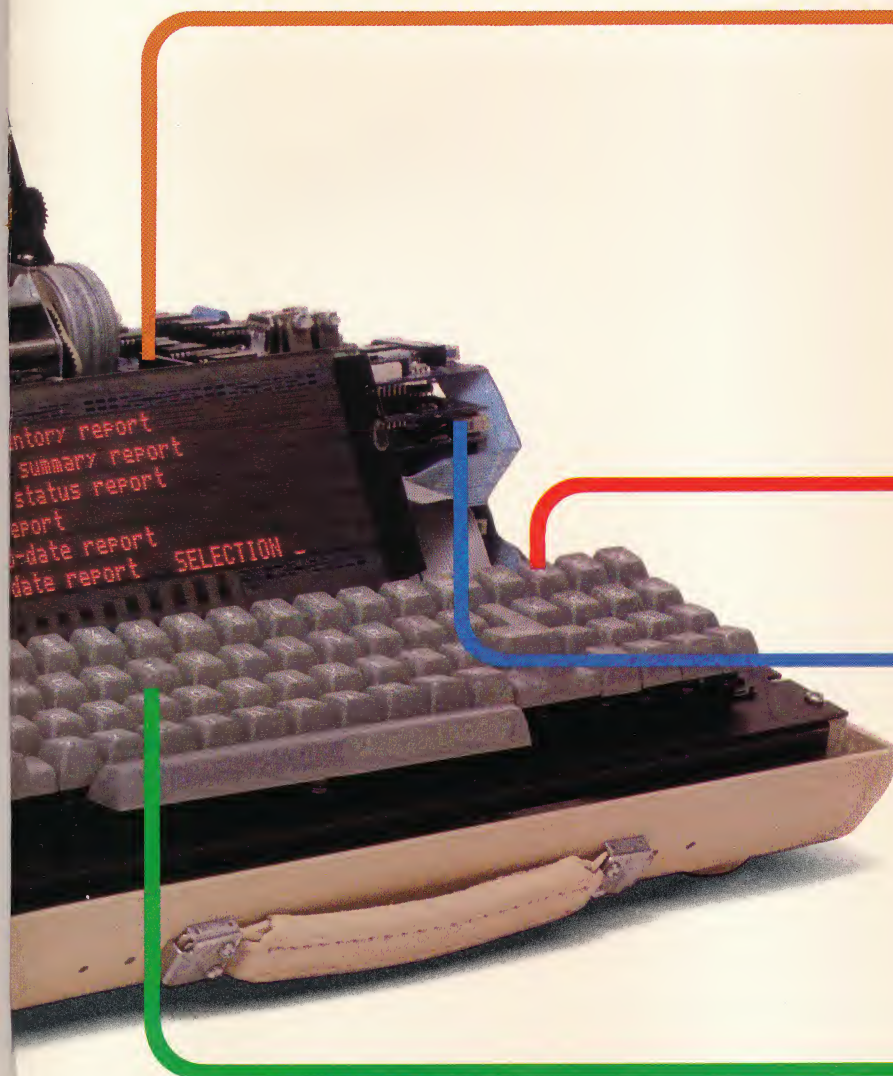
System 128TD uses 128k of bubble memory, expandable to 2 megabytes on the same controller. (1/2 million only inside the case) Access time: 8 milliseconds. Memory is retained even during power interruptions. No rotating parts.

### Hard Disk

Optionally 10, 39, 90 and 195 Megabyte drives available. Data transfer up to 2 Megabytes/sec.







#### **Serial I/O**

Four RS-232C ports, one of which is also a TTY. 4 DB-25s connectors provided on back panel. Full interrupt capability with priority optional.

#### **Parallel I/O**

64 TTL lines, each can be either input or output. Full interrupt capability, with priority optional.

#### **S-100 Bus Adaptor**

Allows interfacing to any S-100 bus devices.

#### **Acoustic Coupler**

Optionally built-in, 300 or higher baud rate.

#### **Battery (optional)**

A continuously charged battery pack maintains the information in the RAM memory in the event of a temporary power failure and gives one hour plug-off work capability.

#### **CPU**

Zilog Z-80 with 2.5 MHz clock (4 MHz optional), 1.6 microsecond minimum add cycle time.

#### **Real Time Clock**

Software interrupt settable and readable.

#### **Random Access Memory**

48k bytes of dynamic RAM, expandable to over 2 megabytes. 1k bytes of static RAM.

#### **Read Only Memory**

8k bytes of ROM. Expandable to 32k bytes.

#### **Keyboard**

72 sculptured keys, alphanumeric, upper and lower case, up to 35 programmable function keys, ten-key numeric pad, electronic shift lock, all-caps lock, LED indicator, N-key rollover, autorepeat.

#### **Mechanical specifications**

Functions are modularized into separate printed circuit boards connected by STACKBD®, a proprietary interconnection scheme which eliminates the need for a mother board. Board position and relative order in the chain is arbitrary, and expansion is limited only by the physical size of the unit and the electrical load capacity.

#### **Physical specifications**

Size: 17½ x 21½ x 8¼ inches  
(44.4 x 54.6 x 21 cm)  
Weight: 31 pounds (14 kg)  
Case: high impact, molded Kydex  
Temperature resistant: 32°–122° F  
(0°–50° C)  
Humidity resistant: 20–85% relative

#### **Baud Rate**

Up to 19,200 entirely under software control.

#### **Peripherals**

Standard floppy and large hard disc drives, printers, other computers. Asynchronous, synchronous or bisynchronous communications.

#### **Electrical specifications**

Power: 110/220V (optional),  
±15%, 47-440 Hz, 200 W max.



# Operating system and programming languages

The FINDEX computer is extremely versatile, allowing the user to program it in assembly language as well as in several high level languages such as BASIC, FORTRAN, COBOL or PASCAL. The FINDEX can also be a powerful software developing system by making use of its MACRO assembler.

## CP/M

FINDEX uses CP/M as an operating system. The combination of CP/M and Z-80 microprocessor produces a system that approaches the versatility of large computers. All of the features necessary in a disk operating system are combined in CP/M. It also includes a monitor, text editor, assembler and debugger. It can address 128 megabytes of hard disk storage with up to 8 megabytes per file.

## BASIC

The FINDEX BASIC is the most extensive Z-80 BASIC available. It contains features rarely found in other BASICs:

- Direct access to CPU I/O ports (INP, OUT);
- Ability to read or write any memory location (PEEK, POKE);
- Matrices with up to 255 dimensions;
- Dynamic allocation and deallocation of matrices at execution time (DIM A [I, J], ERASE A);
- IF... THEN... ELSE and nested IF... THEN... ELSE;
- Direct (immediate) execution of statements;
- Error trapping;
- Full PRINT USING for formatted output (includes asterisk fill, floating \$ sign,

scientific notation, trailing sign, comma insertion);

- Extensive program editing facilities via EDIT line command, RENUM, AUTO, etc.;
- Trace facilities (TRON, TROFF);
- Ability to call up to 10 assembly language subroutines;
- Boolean operators OR, AND, NOT, XOR, EQV, IMP;
- Extensive string functions as well as a complete mathematical package, 16 digits precision;
- Sequential files with variable length records;
- Random files (record I/O);
- Linked keys (any-string indexed sequential files—no need for sorting);
- Dynamically written variable length records and fields;
- Complete set of file manipulation statements: OPEN, CLOSE, GET, PUT, KILL, NAME, KEY\$, ACCESS, etc.;
- Programs chaining;
- Programs merge;
- Multiple statements on one line.

## Basic Compiler

Error-free interpretive basic programs can be compiled now for fast execution (approx. 6 times faster) and for maximum memory utilization (the program requires only the run-time package).

## COBOL

The COBOL-80 is comparable to COBOL systems found on mini-computers and large mainframes. Consequently it greatly enhances the usefulness of the FINDEX because it gives users access to the incredibly large number of programs already written in COBOL. Because COBOL-80 is a standard, COBOL programs written on other computers may be run easily on the FINDEX.

COBOL is based on the 1974 ANSI (X3.23-1974) standard and contains all Level 1 features and the most useful Level 2 options for the "Nucleus" and for Sequential, Relative and Indexed file handling facilities. Additionally, Level 1 Table Handling, Library and Inter-



Easy to use, portable yet powerful, with broad expansion capabilities. →



program Communication facilities are provided. Of the advanced Level 2 features, COBOL-80 includes the verbs STRING, UNSTRING, COMPUTE, SEARCH, and PERFORM (varying/until), along with convenient condition specification by way of condition-names, compound conditions and abbreviated conditions. Furthermore a data format called COMP-3 allows numeric data to be packed two digits to the byte so that mass storage requirements are reduced. Lastly a batch-style Debug technique is implemented to get programs running in a minimum of on-line time.

The COBOL system consists of two complete packages: a compiler for translating source code into relocatable object code (which, incidentally, is compatible with the object code of the FORTRAN-80 compiler and a MACRO-80 assembler), and a runtime system for running the program by interpreting the object code at execution time.

## FORTRAN

All of the ANSI Standard FORTRAN X3.9-1966 is included in FORTRAN except the COMPLEX data type. Therefore users may take advantage of the many applications programs already written in FORTRAN.

FORTRAN-80 is unique in that it provides a microprocessor FORTRAN and assembly language development package that generates relocatable object modules. This means that only the subroutines and system routines required to run FORTRAN-80 programs are loaded before execution. Subroutines can be placed in a system library so that users develop a common set of subroutines that are used in their programs. Should one module only of a program be changed, it is necessary to re-compile that module only.

The FORTRAN-80 compiler has a number of enhancements of the ANSI standard:

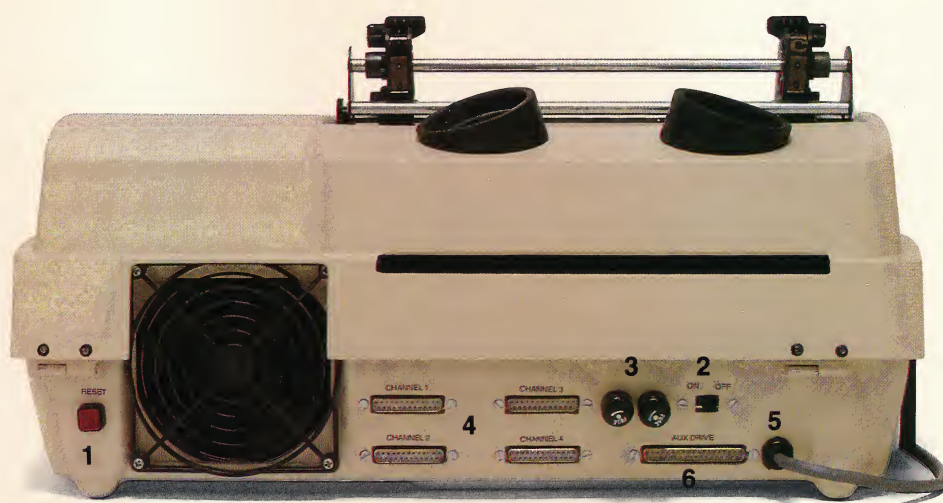
- LOGICAL variables which can be used as integer quantities in the range +127 to -128;
- LOGICAL DO loops for tighter, faster execution of small valued integer loops;
- Mixed mode arithmetic;
- Hexadecimal constants;
- Literals and Holleriths allowed in expressions;
- Logical operations on integer data. .AND., .OR., .NOT., .XOR. can be used for 16-bit or 8-bit Boolean operations;
- READ/WRITE End of File or Error Condition transfer. END=n and ERR=n (where n is the statement number) can be included in READ or WRITE statements to transfer control to the

specified statement on detection of an error or end of file condition;

- ENCODE/DECODE for FORMAT operations to memory.

A relocating MACRO assembler (MACRO-80) and relocating linking loader (LINK-80) are included in the FORTRAN-80 package.

The relocating assembler is compatible with INTEL's assembler and uses approximately 12k bytes of memory. In particular, MACLIB (macro library) allows the user to define a particular set of macros to generate machine code for any specific 8-bit or 16-bit machine which does not match the Intel 8080 or the Z-80 instruction set. Detailed descriptions of all capabilities associated with CP/M and the other languages are available in the different manuals.



- 1 Reset button
- 2 ON/OFF switch
- 3 Fuses

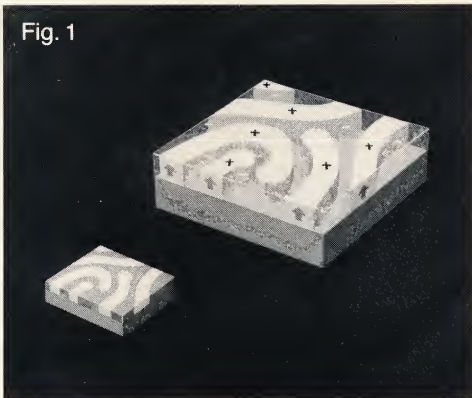
- 4 DB-25S connectors
- 5 Power cord
- 6 Aux. disk drive



# Inside the bubble memory

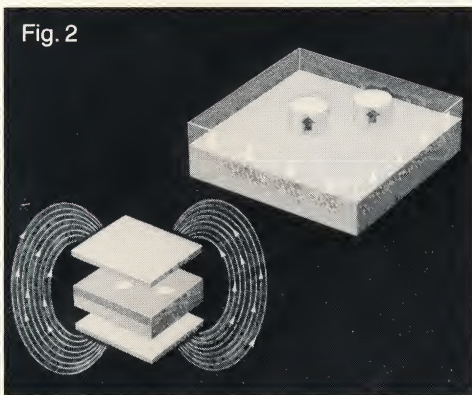
Bubble memory technology is really coming into its own, and more and more bubble memory devices will be available in the near future. For those who are unfamiliar with this technology, here's a quick look at how the bubble memory works.

Fig. 1



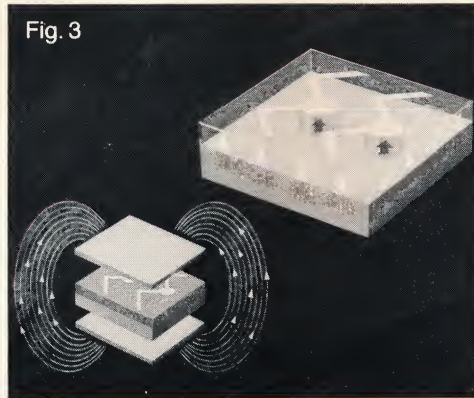
Thin films of certain magnetic materials (i.e., a layer of magnetic garnet artificially grown on a nonmagnetic garnet substrate) contain randomly shaped domains (Fig. 1). When a magnetic bias field is applied by two permanent magnets placed on either side of the device, in a direction perpendicular to the thin film, these randomly shaped domains shrink into "bubbles" (actually cylindrical magnetic domains of fixed volume), the polarization of which is opposite to that of the

Fig. 2



thin film (Fig. 2). If the polarization of the film is south, then the bubbles would be like floating islands of "North" in a sea of "South." These bubbles can be seen under great magnification in polarized light as contrasts within the film.

Fig. 3



Magnetic bubbles are stable over a wide range of conditions, and they can be moved from point to point at very high speeds. (When the bubbles "move," it is not matter that moves, but rather the very rapid transfer of magnetic properties of the crystalline elements of the garnet.)

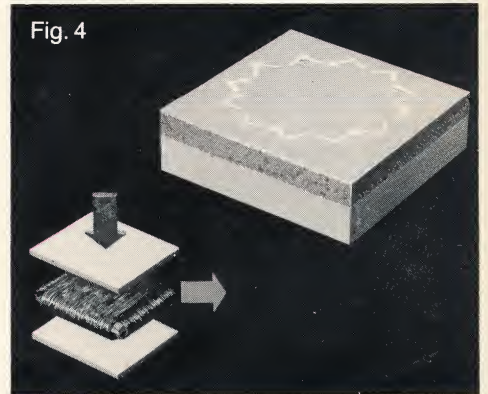
To guide and control the movement of the bubbles, a permalloy pattern of chevrons is applied to the surface of the film to form "paths" (Fig. 3). When, in addition to the bias magnetic field, a rotating magnetic drive field in the plane of the film is applied by two coils that are part of the magnetic bubble device (Fig. 4), the bubbles can move at extremely high speed along these paths.

The permalloy paths are formed as loops. The presence of a bubble in a certain position on the loop corresponds to a "ONE bit;" the absence, to a "ZERO bit." A "block" consists of bubbles in the same relative position in each loop.

The output circuitry on the bubble memory device includes a detector that exactly transforms the bubble to be read into an electronic pulse. This "read" operation preserves the bubbles as they are on the device, making nondestructive readout a prominent feature of bubble memories. A different kind of output can be used to transfer, or erase, the bubbles.

Data is entered by generators at the other end of the chip. Bit information is transferred at gates, thus forming bubbles at known positions in the loop.

Fig. 4



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Represented in:  
the United Kingdom,  
the Netherlands (for Benelux),  
South Africa, Australia.





## FINDEX

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California, USA  
Phone 213 380 6950

### Applications software library BASIC

#### Utilities (No charge)

Programmed self-teaching of FINDEX BASIC. List all variables of a BASIC program. Copy or copy and expand file. Copy disc or Bubble. Print or display disc or Bubble blocks (ASCII/HEX). Display/print system configuration. Cross reference variables, statement numbers, statements, strings. List all programs. Display/print disc or Bubble dictionary. Erase disc or Bubble.

#### Games (No charge)

Chess. Nim. Banners. Peanuts characters. Maze. Calendar printing. Baccarat. Blackjack. Tic-Tac-Toe. Bio-rhythm. Poker. Bingo. Craps. Football. Hexpawn. Life. Slots. Synonym. 3D Plot. Tower of Hanoi. Boxing. Keno. Baseball. Message encyphering.

#### Business programs

**1 Mailing list management** (\$480 per module)  
Create, name, address, attribute, record, file. Random input or delete of records. Display/print records in zip code and alphabetical order within zip codes, by attributes, multiple start and stop any place, no pre-sort, Cheshire label 4-up format, multiple labels sets. Automatic delete of double record entries.

#### **2 Non-profit organization receipting**

(\$1,200 per module)

One-entry input. Receipt printing. Daily bank deposit. Income ledger.

#### **3 Hard document filing** (\$480 per module)

Saves considerable filing work. Allows random entries under n different headings or subjects. Information may be retrieved in alphabetical order by any subject.

#### **4 Word processing system** (\$1,200 per module)

In addition to the usual word processing

features, this package offers easy-to-use commands, global search and replace capability, automatic margin justification, automatic page numbering, both left and right indentation, superscripting and subscripting, linking of long documents from diskette to diskette, floating spaces to allow for insertion of diagrams, the ability to handle either single sheet stationery or continuous forms, and complete self-instructing documentation.

#### **Financial investment programs**

(\$20 per program; \$100 per module)

Price and interest on bond purchases. Compound interest rates. Depreciation calculation. Mortgage terms comparison. True annual interest rates. Yields. Loans, annuities and mortgages.

**Accounting package** (\$4,000 for all 5 modules, or \$900 per module)

**1 General ledger** Chart of accounts list. Transaction registers. Trial balance (detail report). Balance sheet. Comparative balance sheet. Income statement. Comparative income statement. Statement of financial changes. Department income statement.

**2 Accounts receivable** Customer account list. Transactions registers. Aged accounts receivable. Statements. Invoices. Account status. End of period report.

**3 Accounts payable** Vendor account list. Transaction registers. Aged accounts payable. Cash requirements. Vendor checks. Check register. End of period report.

**4 Payroll** Employee list. Pay checks. Check register. Monthly State withholdings. Quarterly report. W-2 forms.

**5 Inventory** Detail inventory report. Inventory status report. Reorder report. Inventory price list. Physical inventory worksheet. End of period report. End of year report. Department summary.

#### **Medical package** (\$2,000 all modules)

Complete medical office program which may be used with ease by health care professionals of any specialty. It can handle thousands of family accounts. Procedures of adding new patient accounts, deleting patient accounts, changing account information can be done in only a few seconds. Help statement at many points of entry. A total of 1,000 service codes (office procedures) are available for custom use. 45 payment codes

(cash, credit card, check, insurance, etc.). All are custom codes. *Features:* Monthly &/or weekly statements. Optional statement balance threshold. Option not to bill medicare accounts. Automatic insertion of overdue reminders and/or custom messages. Statements include patient's name, date of office call, purpose of call, previous balance, current charges, any message. Unlimited patients recall capabilities. Nine different recall codes for custom use. Monthly analysis of services report (totals, averages and percentages of all services performed). Aged accounts list. Active accounts list. Daily log (all transactions and totals for the day, month and year). Completion of insurance forms.

#### **Mathematical and statistical engineering, navigational programs** (\$30 per program; \$500 per module)

Prime numbers generator. Number factoring into primes. Chi-square and probabilities from 2x2 data sets. Interpolations and integration by spline fits or by the Gaussian quadrature. Polynomials solutions by Baisrows method. Triangle solution. Fourier series evaluation. Means difference for equal variance data. Univariate data description. Confidence limits computation for normal population. Solutions to quadratic equations. Linear regression calculation. Sample statistics calculation. Variance table of a one-way random design analysis. XY function plotting. One way analysis of variances. Normal and T-distribution calculations. Mean, variance and standard deviation calculation. Multiple linear fit with or without transformations. Least squares polynomial fit. Least squares fit by linear exponential or power function. Differences of means in non-equal variances. Auto and cross correlations with plots. Confidence limits for a sample mean. Confidence limits on linear regressions. Calculates coefficients of Fourier series to approximate a function. Binomial distribution calculation. Selection of steel beam sizes. Steel beam capacity. Convolutions. Low pass filter components. Longitude and latitude. Position calculation from azimuth and altitude of celestial bodies. Hourly position of the sun and the moon. Power spectral densities and FFT calculation. Spherical triangles solution. Course, distance and incremental vectors calculation. Final position given start and motion vectors.

PLACE STAMP HERE

## FINDEX

1625 West Olympic Blvd.  
Suite 808  
Los Angeles, 90015  
California, U.S.A.





2 years approx. lease purchase rates &gt; \$500

|                                                                                                                                                                                                                                                                                                                                                       | Retail price |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----|
| <b>FINDEX System 100TD</b>                                                                                                                                                                                                                                                                                                                            | \$           | \$  |
| Z-80 CPU with 2.5 megaHz clock, 80-132 column built-in plain paper printer, 72-key sculptured keyboard, flat gas plasma display, four RS-232C ports (DB-25S connectors), one DB-37S connector for auxiliary drives, 8k ROM, 48k RAM, CP/M and FINDEX extensive BASIC software operating system, 200k bytes built-in mini-floppy diskette drive (4100) | 5,980        | 308 |
| <b>Additional Option</b>                                                                                                                                                                                                                                                                                                                              |              |     |
| 400k bytes double-sided, double density, built-in mini-floppy disc drive (3300)                                                                                                                                                                                                                                                                       | 850          | 45  |
| <b>FINDEX System 128TD</b>                                                                                                                                                                                                                                                                                                                            |              |     |
| Same as System 100TD, but with 128k bytes built-in bubble memory instead of mini-floppy disc drive. Bubble memory may be expanded to 2 megabytes on the same controller, only 0.5 megabytes inside the present case. BASIC operating system bubble memory resident (4200)                                                                             | 8,990        | 416 |
| <b>Additional Options</b>                                                                                                                                                                                                                                                                                                                             |              |     |
| 128 bubble memory modules (3400)                                                                                                                                                                                                                                                                                                                      | 3,000        | 158 |
| Controller (3600)                                                                                                                                                                                                                                                                                                                                     | 1,300        | 68  |
| <b>Further options for both Systems 100TD and 128TD</b>                                                                                                                                                                                                                                                                                               |              |     |
| Built-in acoustic coupler, 300 baud rate (1201)                                                                                                                                                                                                                                                                                                       | 600          | 32  |
| 4 megaHz clock (2600)                                                                                                                                                                                                                                                                                                                                 | 600          | 32  |
| Additional parallel ports (64-I/O lines) (1400)                                                                                                                                                                                                                                                                                                       | 500          | 27  |
| Parallel I/O back panel connector DD-50S (1401)                                                                                                                                                                                                                                                                                                       | 100          |     |
| External S-100 bus motherboard (1500)                                                                                                                                                                                                                                                                                                                 | 200          |     |
| One-hour built-in rechargeable battery pack with 12V car adaptor (3200)                                                                                                                                                                                                                                                                               | 500          | 27  |
| FINDEX carrying case (3100)                                                                                                                                                                                                                                                                                                                           | 300          |     |
| Cassette recorder interface and ports (3205)                                                                                                                                                                                                                                                                                                          | 150          |     |
| 6 row, 80-character, built-in plasma display, provides 480 characters instead of standard 240 (3206)                                                                                                                                                                                                                                                  | 400          |     |
| <b>Peripherals (includes interface and cables)</b>                                                                                                                                                                                                                                                                                                    |              |     |
| Hard disc drive, fixed and removable (10 megab.) (3700)                                                                                                                                                                                                                                                                                               | 10,000       | 505 |
| Winchester hard disc drive (10 megab.) (3701)                                                                                                                                                                                                                                                                                                         | 5,500        | 285 |
| Winchester hard disc drive (39 megab.) (3702)                                                                                                                                                                                                                                                                                                         | 6,000        | 312 |
| Winchester hard disc drive (90 megab.) (3703)                                                                                                                                                                                                                                                                                                         | 7,000        | 361 |
| Winchester hard disc drive (195 megab.) (3704)                                                                                                                                                                                                                                                                                                        | 8,000        | 416 |
| 5.25" stand-alone mini-floppy disc drive (200k) (3900)                                                                                                                                                                                                                                                                                                | 600          | 33  |
| 5.25" stand-alone mini-floppy disc drive (400k) (3901)                                                                                                                                                                                                                                                                                                | 1,040        | 55  |
| Outside acoustic coupler 300 baud rate (1200)                                                                                                                                                                                                                                                                                                         | 350          |     |

2 years approx. lease purchase rates &gt; \$500

|                                                                     | Retail price                                    |    |
|---------------------------------------------------------------------|-------------------------------------------------|----|
|                                                                     | \$                                              | \$ |
| Full-screen, 1920-character, 80 x 24 line, 75-key CRT (1600)        | 1,100                                           | 58 |
| Stand-alone 132-column, plain paper printer                         | <i>Quoted on request</i>                        |    |
| Terminal interface cable, 10' (1700)                                | 50                                              |    |
| Custom I/O cables                                                   | <i>Quoted on request</i>                        |    |
| Cassette recorder cable (2100)                                      | 30                                              |    |
| <b>Supplies</b>                                                     |                                                 |    |
| Aluminized paper rolls (1800)                                       | 5                                               |    |
| Printer paper case (1801)                                           | 40                                              |    |
| 5.25" floppy diskettes (2200)                                       | 10                                              |    |
| 8" floppy diskettes (2300)                                          | 10                                              |    |
| Hard disc cartridge (5 megabytes) (2400)                            | 150                                             |    |
| <b>Software</b>                                                     |                                                 |    |
| Program modules available on cassettes or discs (see Software list) | <i>\$10 to \$4000 per diskette with program</i> |    |
| COBOL compiler (2700)                                               | 900                                             | 48 |
| FORTRAN compiler (2702)                                             | 600                                             | 31 |
| BASIC compiler (2850)                                               | 900                                             | 48 |
| MACRO assembler (2701)                                              | 100                                             |    |
| <b>Manuals</b>                                                      |                                                 |    |
| FINDEX BASIC Interpreter manual (2900)                              | 30                                              |    |
| COBOL Compiler manual (2902)                                        | 30                                              |    |
| FORTRAN Compiler manual (2901)                                      | 30                                              |    |
| MACRO Assembler manual (2904)                                       | 30                                              |    |
| CP/M manual (2903)                                                  | 30                                              |    |
| BASIC Compiler manual (2905)                                        | 30                                              |    |
| FINDEX Operating manual (3000)                                      | 15                                              |    |

Prices FOB Los Angeles.

Delivery: 30-60 days. (Bubble memory items: 90-120 days)

Terms: 30% down payment with order. Full payment 10 days net.

Freight and insurance to be paid by customer.

Warranty: One year on FINDEX parts and labor free when returned to service center.

Ninety days on bubble memory and peripherals.

A two-hour free demonstration will be given at our office (unless there is a local distributor) with every delivery.

Unless exclusive territory dealership has been appointed, service under warranty provided in Los Angeles.

Service after warranty expiration: 12% of retail price/year.

Third-party leasing agreements may be entered into by clients.

Lease rates: 5 years or over, rate per month is: price  $\times$  0.0255 (only over \$3,000)

Prices subject to change without notice.

# Yes!

I want a demonstration  
of the FINDEX  
microcomputer

☐ Call me for an appointment

Company

Name

Address

State

Zip

My use for the FINDEX is:

Title

City

Phone